IN THE CLAIMS

What is claimed is:

1	1.	A system for processing simplex and multiplexed voice packets, comprising:			
2		a compare circuit that includes a plurality of locations that include			
3		simplex entries and multiplex entries, each simplex entry including data that			
4		can match simplex packet information, each multiplex entry including data			
5		that can match multiplex packet information.			
1	2.	The system of claim 1, wherein:			
2		each simplex entry includes data that can match predetermined			
3		simplex packet header information.			
1	3.	The system of claim 1, wherein:			
2		each simplex entry includes data that can match information			
3		corresponding to at least one network layer.			
1	4.	The system of claim 1, wherein:			
2		each simplex entry includes data that can match a user datagram			
3		protocol destination port address.			
1	5.	The system of claim 1, wherein:			
2		each simplex and multiplex entry includes an entry type field having a			

- first value in a simplex entry and a second value different from the first value in a multiplex entry.

 The system of claim 1, wherein:
- the compare circuit includes a content addressable memory (CAM).
- 1 7. The system of claim 6, wherein:
- 2 the CAM includes maskable entries.
- 1 **8.** The system of claim 7, wherein:
- 2 the CAM entries are globally maskable.

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1	9.	A packet processing system, comprising:
2		a compare section having a content addressable memory (CAM) that
3		includes a plurality of entries that match simplex voice packet information and
4		multiplexed voice packet information.
1	10.	The packet processing system of claim 9, wherein:
2		each entry includes at least one bit that indicates if the entry matches
3		simplex voice packet information or multiplexed voice packet information.
1	11.	The packet processing system of claim 9, wherein:
2		each entry that matches multiplexed voice packet information includes
3		a field that stores a voice channel value.
1	12.	The packet processing system of claim 11, wherein:
2		each entry that matches multiplexed voice packet information further
3		includes a trunk field that stores a data value corresponding to a grouping of
4		voice channels.
1	13.	The packet processing system of claim 9, wherein:
2		each entry that matches simplex voice packet information includes a
3		field that stores a voice channel value.

The packet processing system of claim 9, wherein:

- 2 each entry that matches simplex voice packet information includes a
- 3 field that matches transport layer header information.

1	15.	A system, comprising:		
2		a processor;		
3		a storage register coupled to the processor that stores simplex voice		
4		packet information;		
5		a voice packet input coupled to the processor that provides multiplexed		
6		voice packet information; and		
7		a compare circuit coupled to the processor that compares simplex		
8		voice packet information from the storage register and multiplexed voice		
9		packet information from the voice packet input to a plurality of entries, each		
10		entry indexing to a particular voice channel.		
1	16.	The system of claim 15, wherein:		
2		the compare circuit includes a content addressable memory (CAM).		
1	17.	The system of claim 16, wherein:		
2		each CAM entry includes at least one entry type field for		
3		distinguishing between entries that match simplex voice packet information		
4		and entries that match multiplexed voice packet information.		
1	18.	The system of claim 17, wherein:		
2		each entry indexes address information for a storage location		
3		corresponding to a voice channel.		

1	19.	The system of claim 15, wherein:
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- 2 the compare circuit entries each include valid indications that indicate
- 3 when an entry contains valid information.
- 1 **20.** The system of claim 15, wherein:
- 2 the compare circuit compares simplex voice information with multiple
- 3 entries.
- 1 **21.** The system of claim 15, wherein:
- 2 the compare circuit compares multiplex voice information with
- 3 multiple entries.